

On page 30, line 28, please insert --[SEQ ID NO:130] before "and";
line 28, please insert --[SEQ ID NO:131] after "and".

On page 54, line 4, please insert --132-- after "NO:";
line 5, please insert --133-- after "NO:".

On page 56, line 6, please insert --134-- after the first "NO:";
line 6, please insert --135-- after the second "NO:".

On page 56, line 7, please insert --136-- after "NO:"
line 11, please insert --137-- after "NO:".

In the Claims:

Please cancel claims 1-33, and add the following new claims.

Sub B1 > --34. A non-human transgenic mammal comprising an isolated DNAC molecule, wherein said DNAC molecule comprises a promoter P and an L1 cassette sequence comprising a core L1 retrotransposon element.

35. The non-human transgenic mammal of claim 34, wherein said mammal is a mouse.

A3 Sub B2 > 36. The non-human transgenic mammal of claim 35, wherein said core L1 retrotransposon element comprises a 5'UTR, ORF1, ORF2 comprising EN and RT domains, a 3'UTR, a poly A signal, and a vector sequence comprising at least one origin of DNA replication and a DNA sequence encoding at least one selectable marker protein.

Sub B3 > 37. The non-human transgenic mammal of claim 35, wherein said promoter P is an RNA pol III promoter or an RNA pol II promoter, said RNA pol II promoter being selected from the group consisting of a constitutive promoter, an inducible promoter, a tissue-specific promoter and a viral promoter.

38. The non-human transgenic mammal of claim 36, wherein said origin of DNA replication is a eukaryotic origin of DNA replication.

39. The non-human transgenic mammal of claim 38, wherein said isolated DNAc molecule further comprises a prokaryotic origin of DNA replication.

40. The non-human transgenic mammal of claim 36, wherein said selectable marker protein is a first marker protein selected from the group consisting of neomycin resistance protein, green fluorescent protein, β -galactosidase, and a prokaryotic antibiotic resistance protein.

41. The non-human transgenic mammal of claim 36, wherein said isolated DNAc molecule further comprises a fragment of non-L1 DNA and a promoter P' for expression of said non-L1 DNA, wherein said non-L1 DNA and promoter P' are positioned within said 3'UTR or between said 3'UTR and said poly A signal.

42. The non-human transgenic mammal of claim 41, wherein said non-L1 DNA comprises DNA encoding a second marker protein.

43. The non-human transgenic mammal of claim 42, wherein said second marker protein is selected from the group consisting of neomycin resistance protein, green fluorescent protein, β -galactosidase, herpes simplex virus thymidine kinase, and a eukaryotic cell surface protein

44. A sperm cell obtained from a male non-human transgenic mammal, wherein said mammal comprises an isolated DNAc molecule, wherein said DNAc molecule comprises a promoter P and an L1 cassette sequence comprising a core L1 retrotransposon element.

45. The sperm cell of claim 44, wherein said non-human transgenic mammal is a mouse.